Site Assessment / Remediation

REPORT OF WELL DESTRUCTION OF SIX GROUNDWATER MONITORING WELLS

ACE TOWING
1354 NORTH MAGNOLIA AVENUE
EL CAJON, CALIFORNIA
DEH CASE NO. H25409-001

PROJECT NO. 278.1.23 JULY 5, 2005

# HARGRAVE ENVIRONMENTAL CONSULTING, INC.

Project No. 278.1.23 July 5, 2005 Site Assessment / Remediation

Mrs. Marie Beeman Ace Towing 1354 North Magnolia Avenue El Cajon, CA 92020

SUBJECT:

REPORT OF WELL DESTRUCTION OF SIX GROUNDWATER MONITORING WELLS, ACE TOWING, 1354 NORTH MAGNOLIA AVENUE, EL CAJON, CALIFORNIA, DEH CASE NO. H25409-

001.

Reference:

Closure Letter from Mr. Earl Phillips, County of San Diego, Department of Environmental Health (DEH), dated May 16, 2005.

Dear Mrs. Beeman:

In accordance with your request, Hargrave Environmental Consulting, Inc. (HEC) is submitting the following report of the destruction of six groundwater monitoring wells.

If you have any questions or comments, please do not hesitate to contact us.

Respectfully,

HARGRAVE ENVIRONMENTAL CONSULTING, INC.

Chuck Hargrave

President

Gerald I. Shiller

Surd I Shiller

Professional Geol

PG # 4558

Distribution: (1) Addressee

(1) Mr. Earl Phillips, County of San Dieg

(1) Well Permit Desk, County of San Diego

acetowing\reports\278.1.23.wpd

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<b></b>	DESTRUCTION PERMIT LMON102982	

#### INTRODUCTION

Hargrave Environmental Consulting Inc. (HEC) was authorized by the County of San Diego, Department of Environmental Health (DEH) to destroy six groundwater monitoring wells (MW-2 through MW-7) located at Ace Towing, 1354 North Magnolia Avenue, El Cajon, California (see Figure No. 1, Site Location). The wells were located in the vicinity of the unauthorized release from the former underground storage tanks (USTs). Site assessment work has been completed and the site received closure from the DEH (see Appendix A, Closure Letter from the County of San Diego, DEH, dated May 16, 2005). Currently the site is occupied by a large building, part of which has been used as service bays and office space since 1987 by the current site tenant, Ace Towing. A lunch deli occupies the part of the building closest to North Magnolia Avenue. The site was reportedly occupied by a construction company before 1987.

HEC obtained the well destruction permit from DEH on March 21, 2005, for monitoring wells MW-2 through MW-7 (see Appendix B, County of San Diego, DEH, Monitoring Well Destruction Permit, LMON102982). The scope of work included the destruction of the groundwater monitoring wells and disposal of associated debris.

This report details the field operations, the method of well destruction, the type and quantity of backfill materials used, and the disposal of debris.

#### WELL DESTRUCTION

Well destruction was performed under the direction of HEC geologists on June 29, 2005. The six groundwater monitoring wells (MW-2 through MW-7) were destroyed in accordance with the Department of Water Resources, Water Well Standards for California, Bulletin 74-90, dated December 1991 and the DEH Site Assessment and Mitigation (SA/M) Manual, 2005. The approximate locations of the wells are shown on Figure No. 2, Site Plan.

#### Over Drilling of Wells

Drilling services were provided by HEC. A jackhammer was used to remove each well box and associated concrete. Each well casing was then pulled out of the boring with the drill rig. Once each well casing was removed, six-inch diameter hollow stem auger was utilized to over-drill the filter pack and annular seal materials. The borings were drilled to the total depth of each respective well (see Table I, Well Construction Details).

#### Backfilling of Borings

Following the over drilling of the well boring that removed the

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July 5, 2005
Page 2

filter pack and the annular material, the auger was removed, and the boreholes were backfilled with bentonite chips to approximately 0.5 feet bgs and hydrated. The remainder of each borehole was backfilled to the surface with asphalt or concrete to match existing surface conditions.

#### Quantity of Backfill Material Used

A total of 25.4 cubic feet of bentonite chips were utilized to backfill borings MW-2 through MW-7 from the bottom of each boring to approximately 0.5 feet bgs. Asphalt was used to complete the remaining 0.5 feet of backfilling and to match the current surface grade in MW-2 (1 bags), and MW-3 (2 bags). A total of 12 cubic feet of concrete was utilized to backfill borings MW-4 through MW-7 from the top of the bentonite seal to the current surface grade, see Table II, Materials Used to Backfill Monitoring Well Borings.

#### DISPOSAL OF CONSTRUCTION DEBRIS

Concrete from the surface seal, along with the other annular materials removed from the wells, were stored in four 55-gallon drums pending disposal. Disposal is tentatively scheduled for the week of July 11, 2004. Following receipt of the final signed disposal manifest it will be submitted under separate cover.

#### <u>LIMITATIONS</u>

The contents of this report are based on the following:

- 1. The observations of our field personnel during the field activities;
- 2. Information obtained from San Diego County, DEH, and State regulatory agencies; and
- 3. Reference documents.

The services performed by Hargrave Environmental Consulting, Inc. (HEC), have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the southern California area. No other warranty, expressed or implied, is made.

#### REFERENCES

- 1. County of San Diego, Department of Environmental Health (DEH), 2005 SA/M Manual.
- 2. State of California, Resources Agency, Department of Water Resources, Water Well Standards for California, Bulletin 74-90, dated December 1991.

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3. County of San Diego, Department of Environmental Health, Closure Letter, dated May 16, 2005.

TABLE I
WELL CONSTRUCTION DETAILS

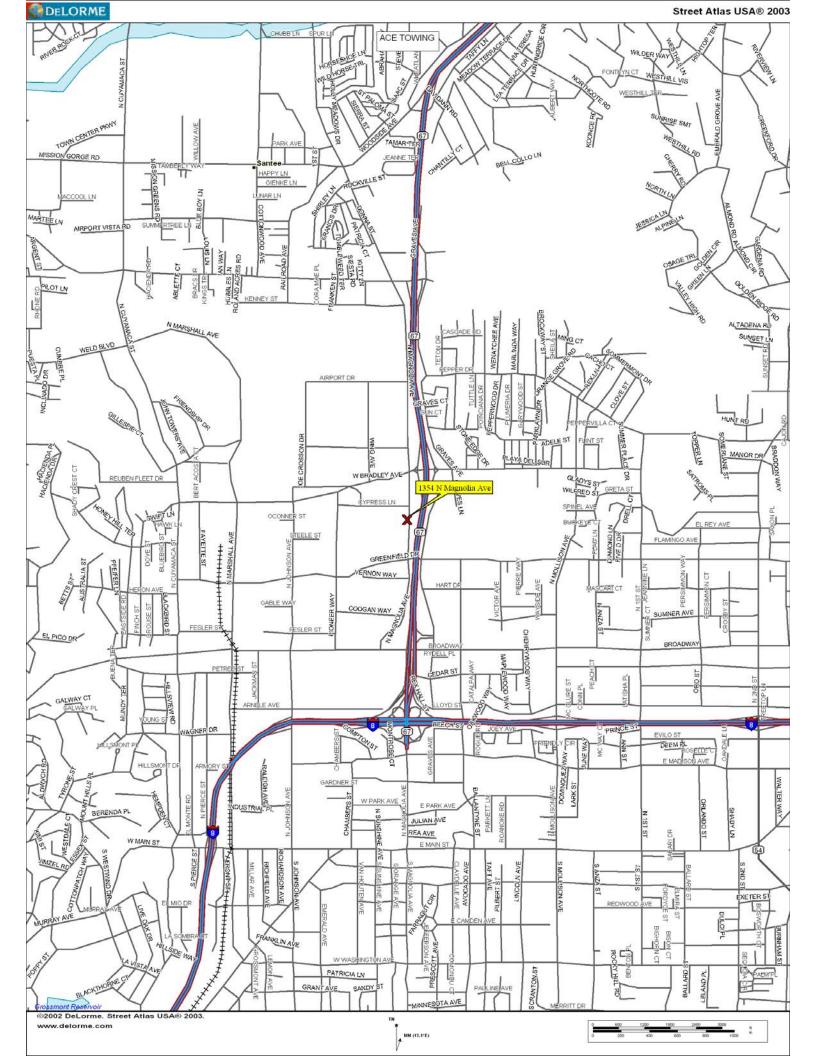
	MW-1	MW-2	MW-3	MW - 4	MW - 5	MW - 6	MW - 7
TOTAL DEPTH (ft bgs)	20	19	18	12	19	19	19
WELL SCREEN (ft bgs)	10-20	4-19	4-19	2-12	4-19	4-19	4-19
SOLID CASING (ft bgs)	0-10	0-4	0-4	0-2	0-4	0-4	0 - 4
GRAVEL PACK - #3 SAND (ft bgs)	8-20	3-19	3-18	1.5-12	3-19	3-19	3-19
BENTONITE SEAL (ft bgs)	2-8	1.5-3	1.5-3	0.5-1.5	1.5-3	1.5-3	1.5-3
CONCRETE SURFACE SEAL (ft bgs)	0-2	0-1.5	0-1.5	0-0.5	0-1.5	0-1.5	0-1.5
DATE COMPLETED	02/10/93	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01

ft bgs = feet below ground surface
MW-1 destroyed 4/30/02 during remedial excavation

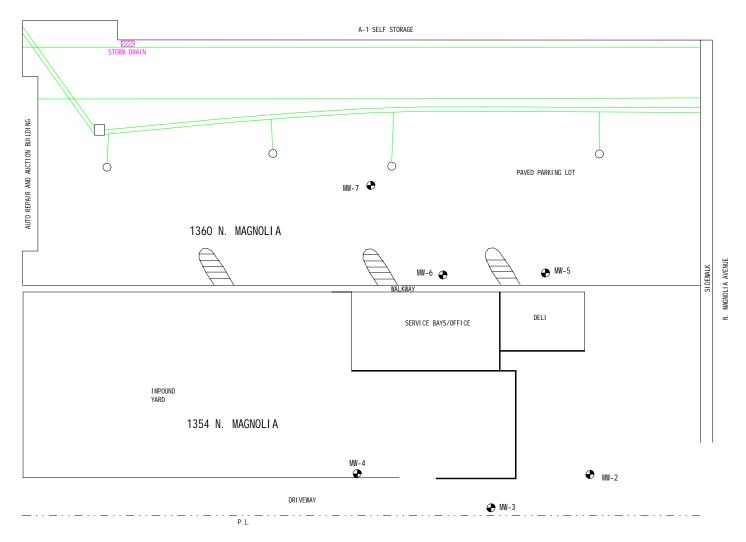
TABLE II

MATERIALS USED TO BACKFILL MONITORING WELL BORINGS

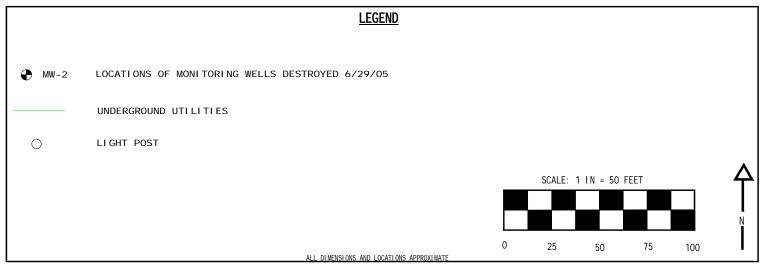
MATERIALS	MW-2	MW-3	MW - 4	MW - 5	MW - 6	MW - 7
BENTONITE (cubic feet)	4.5	4.2	2.9	4.5	4.5	4.8
CONCRETE (cubic feet)	0	0	4.0	3.0	2.5	2.5
ASPHALT (square feet)	4	8	0	0	0	0



## **ACE TOWING**



ADJACENT COMMERCIAL PROPERTY



ACE TOWING

1354 N. MAGNOLIA AVENUE
EL CAJON, CALIFORNIA
PROJECT 278. 1. 23
ACE TOWING\DRAWINGS\278-1-23. SKF

FIGURE NO. 2: SITE PLAN

#### APPENDIX A

CLOSURE LETTER FROM THE COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH), DATED MAY 16, 2005





# County of San Diego's

GARY W. ERBECK DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2088
1-800-253-9933
www.sdcdeh.org

RICHARD HAAS ASSISTANT DIRECTOR

May 16, 2005

Mrs. Marie Beeman Ace Towing, Inc. 1354 North Magnolia Ave. El Cajon, CA 92020

Post-it® Fax Note 7671	Date \$\\\ \Delta 2 \\ \Delta 05 \\ \pages \rightarrow 3
BRIAN SWEET	From EARL W. PHILLIPS
Co./Dept.HAR CRAVE ENVIRON MENTAL CONSULTING	CO. DEH/SAM
Phone #(858) 268 4248	Phone # (619) 338-2455
Fax # (858) 268 4528	Fax# (619) 338-2315

Dear Mrs. Beeman:

UNDERGROUND STORAGE TANK (UST) CASE #H25409-001 REGULATORY CLOSURE FOR THE ENVIRONMENTAL PROJECT AT THE ACE TOWING FACILITY 1354 NORTH MAGNOLIA AVE, EL CAJON, CA 92020

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum releases at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact Earl Phillips at (619) 338-2455 if you have questions regarding this matter.

GARY W. ERBECK, Director

Department of Environmental Health Site Assessment and Mitigation Program

GWE:EWP:kd

incerely.

**Enclosure** 

cc: John Odermatt, Regional Water Quality Control Board Ron Duff, SWRCB, UST Cleanup Fund Program

WP/H25409-001-505CLO

<sup>\* &</sup>quot;Environmental and public health through leadership, partnership and science"

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

1	AGENCY INFORMATION	
---	--------------------	--

I. AGENCY INFORMATION	DATE	:: May 16, 2005
Agency Name: COUNTY OF SAN DIEGO, ENVIRONMENTAL HEALTH, SAM	Address: P.O. BOX 129261	
City/State/Zip: SAN DIEGO, CA 92112-9261	Phone: (619) 338-2222	FAX: (619) 338-2377
Responsible Staff Person: EARL PHILLIPS	Title: ENVIRONMENTAL HEALT	H SPECIALIST

#### **CASE INFORMATION**

Site Facility A	Address: 1354 N. MAG	NOLIA AV, EL CAJ	ON, CA 92020 -1620		
RB LUSTIS C	ase No: 9UT2032	Loc	cal Case No: H25409-001	LOP Case No: N/A	
URF Filing Da	ite: 11 Sep 1991	SV	NEEPS No: N/A		
Responsible	Parties	Address		Phone Number	
ACE TOWIN	G/ MARIE BEEMAN	1354 N N	IAGNOLIA AVENUE, EL CAJON, CA 92020	(619) 588-6208	
Tank No.	Size in Gal.	Contents	Status	Date	
T001	2000 gallons	Diesel	Closed by removal	09 Aug 1991	
T002	2000 gallons	Gasoline	Closed by removal	09 Aug 1991	

#### RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause Release: OVERFILL	D FROM UST	Substances Release	ed: GASOLINI	E, DIESEL & OTHER SUBSTANCE		
Site Characterization comp	elete: YES	Date Approve	ed By Oversight Agenc	y: 1/29/2001		
Monitoring wells installed?	YES	Number: 7		Proper scr	reened interval? YES	
Highest groundwater depth 7.29 ft (measured)			ndwater depth: 16 ft	Groundwa (measured	ter flow direction: northwest	
Most Sensitive Current Use (1) Beneficial Groundwate (2) Beneficial Surface Wate	Use: MUN, AGR and Pote	ntial: IND, PRO nd Potential: MI	C UN			
Are Drinking Water Wells A	Affected? NO	Aqı	uifer Name: 907.13, El C	ajon Hydrolo	gic Sub Area	
			Nearest SW name: Forrester Creek, 0.8 MILE west			
Off-Site Beneficial Use Imp	acts: None					
Reports and documents fo	r this project are on file at	the COUNTY OF	SAN DIEGO, DEPARTI	MENT OF ENV	IRONMENTAL HEALTH	
TREATMENT AND DISPOS	AL OF AFFECTED MATER	AL	n			
Material	Amount	Treatment or Disposa		al Actions	Date	
Tank (T001)	2000 Gal		Recycled		09 Aug 1991	
Tank (T002)	2000 Gal		Recycled		09 Aug 1991	
Soil Product/water	802.59 Ton: 3,615 Gal		Landfill (Class 2) Treated off-site		05 May 2002	
Draduathuston	2 645 Col			07 May 2		

# Leaking Underground Fuel Storage Tank Program

# III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

H25409-001

MAXIMUM	DOCUMENTED CONTAMINANT	CONCENTRATIONS
	THE CONTINUENCE	CONCENTRATIONS

OIL	MAXIMUM	REMAINING		MAXIMUM	REMAINING
Diesel TPH Extended Benzene Toluene Ethyl benzene Xylenes Methyl-tert-butyl ether (MTBE) Lead	55 mg/kg 4340 mg/kg 19000 mg/kg 120 mg/kg 46 mg/kg 220 mg/kg < 5 mg/kg 4.8 mg/kg	55 mg/kg 4340 mg/kg 63 mg/kg 0.06 mg/kg 0.02 mg/kg 0.20 mg/kg < 100 mg/kg 4.8 mg/kg	WATER Diesel TPH Extended Benzene Toluene Ethyl benzene Xylenes MTBE Lead	1000000 ug/l 1000000 ug/l 1000000 ug/l 1000000 ug/l 1000000 ug/l 1100000 ug/l 11.7 ug/l 7 ug/l	6.15 ug/l 30.5 ug/l 2570 ug/l 5950 ug/l 1940 ug/l 10780 ug/l < 0.5 ug/l

This Local Oversight Program project was referred to DEH/SAM as the result of contamination observed during the removal of two underground storage tanks. Petroleum fuel hydrocarbons impacted the soil and groundwater. The contamination was determined to have extended across property boundaries to the east and to the north.

#### WHAT WAS DONE

A Corrective Action Plan (CAP) was prepared and approved for the excavation and removal of the contaminated soil and groundwater. Approximately 802.59 cubic yards of contaminated soil was excavated and 3,615 gallons of fuel contaminated groundwater removed to the extent practicable under the CAP.

Approximately 124 cubic yards (cyds) of contaminated soil remains in-situ with a maximum concentration of 4,395 mg/kg of total petroleum hydrocarbon (TPH) contamination (gas and diesel). The groundwater was monitored to determine the effects of the residual contamination for approximately 2 years. TPH contamination levels were observed to decline from essentially "free product" conditions to < 50.0 ug/L

Sensitive Receptor and Soil Vapor Risk Surveys were conducted. The sensitive receptor for groundwater was identified as Forrester Creek, approximately 1,500 ft north northwest of the site. The Soil Vapor data obtained was used to calculate the cancer risk for employees. The cancer risk, 6.44E-7, was reported to be safer than the acceptable default standard of 1E-6 cancer risk.

#### COMMENTS

The consultant, Hargrave Environmental Consulting Inc., recommended closure based on the remediation and monitoring work. The residual contamination should be allowed to attenuate naturally, with a decline to water quality goals in about 14 years. DEH/SAM concurs

#### IV. CLOSURE

Does completed corrective action protect existing and potential beneficial uses per the Regional Board Basin Plan? YES.

The corrective actions performed were determined to be protective of the public health for current land use. Regulatory oversight of the case was completed based upon the following site use: COMMERCIAL — Parking for tow trucks. Parking for restaurant customers on adjacent lot to the east. Parking for automobiles for sale on adjacent property to the north.

Site Management Requirements: ANY CONTAMINATED SOIL EXCAVATED AS PART OF SUBSURFACE CONSTRUCTION WORK MUST BE MANAGED IN ACCORDANCE WITH THE LEGAL REQUIREMENTS AT THAT TIME.

Should corrective action be reviewed if land use changes? YES

Monitoring Wells Decommissioned: 0

Number Decommissioned: 0

Number Retained: 7\*

List Actions Taken: NOTICE OF REIMBURSEMENT / LOCAL

List Enforcement Actions Rescinded: NONE

## V. LOCAL AGENCY REPRESENTATIVE DATA

Name: TONY SAWYER	Title: HYDROGEOLOGIST	
VI. RWQCB NOTIFICATION	Date: 5-16-05	

Date Submitted to RB: April 12, 2005

RWQCB Staff Name:

RB Response: No Response within 30 days (13 May 2005)

Title:

Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

\* A permit was issued for the destruction of the groundwater monitoring wells pertaining to this project. The permit number is

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

## **APPENDIX B**

COUNTY OF SAN DIEGO, DEH, MONITORING WELL DESTRUCTION PERMIT LMON102982



County of San Diego

GARY W. ERBECK DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION

P.O. BOX 129261, SAN DIEGO, CA 92112-9261 (619) 338-2222 FAX (619) 338-2377

1-800-253-9933

RICHARD HAAS ASSISTANT DIRECTOR

INFORMATION FOR DRILLING

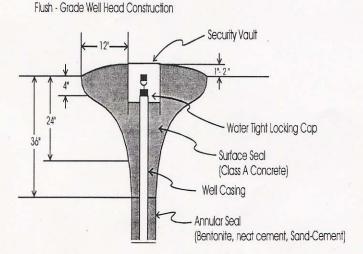
Please provide a copy of this notice and the attached monitoring well permit and application to your field staff.

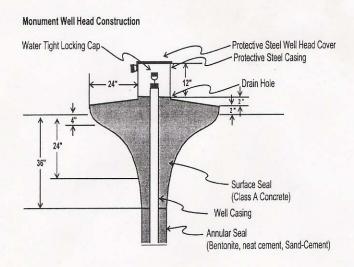
These items must be on site at the time of drilling

The monitoring well permit approval is based on the well construction as proposed on the application. Therefore, unless the permit contains a condition that modifies the depth of the concrete seal, the well(s) must be constructed with the proposed seal.

If geological conditions at the site warrant modification of the well construction, the depth of the surface concrete seal shall be maintained as much as possible and the modifications be made to the amount of bentonite transition seal.

By signing the permit application both the License holder for the drilling company and the registered professional for the consultant are responsible for the proper construction of any wells drilled under this permit







PERMIT #LMON102982 A.P.N. #483-022-69 EST #H25409-001

# COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION MONITORING WELL PROGRAM

#### MONITORING WELL DESTRUCTION PERMIT

SITE NAME: ACE TOWING

SITE ADDRESS: 1354 N. MAGNOLIA AVE., EL CAJON CA 92020

PERMIT TO: DESTROY 6 GROUNDWATER MONITORING WELLS

PERMIT APPROVAL DATE: MARCH 21, 2005

PERMIT EXPIRES ON: JULY 19, 2005 RESPONSIBLE PARTY: ACE TOWING

#### PERMIT CONDITIONS:

- 1. All material within the original borehole, which includes the casing, filterpack and annular seal must be removed. The borehole must be completely filled with an approved sealing material as specified in Department of Water Resources Bulletin 74-90.
- All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, E- 4. (<a href="http://www.sdcounty.ca.gov/deh/lwq/sam/manual guidelines.html">http://www.sdcounty.ca.gov/deh/lwq/sam/manual guidelines.html</a>). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.
- 3. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.
- 4. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 619) 338-2339.

NOTE: This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.

APPROVED BY: DATE: 3.21.200

NOTIFIED: 3-21-05

Fax AC

DEH:SAM-9075 (4/03)

#### THILITION GROUNDWATER AND

2005 OF 9 AM 7 52

PERMIT #WLMON 102982
SAM CASE (VIN #H 25 409-00
DATE RECEIVED: 3-9-05
FEE PAID:
CHECK # LIGOR

VADOSE MONITORING WELLS AND EXPLORATORY OR TEST BORINGS

D. E. H. HAILROOM

A. RESPONSIBLE PARTY	Ace Towing, Mrs. Morie	7
(The person, persons, or company respon	sible for the construction, maintenance, and destruction o	Beeman Phone 619 588 6208
0-11-100	The Thing North AVE City	(7) (0) 00
Contact Person Mrs.	Marie Beenen Phone	619 588 6208 ext. State CA Zip 91010
B. SITE ASSESSMENT PRO	DJECT PROJECT NUMBER-IF APPLIC	<del></del>
C. CONSULTING FIRM	orgrave Environmental Consulti	X -
1.7001102 0.000 []	O) come I Was a Vill Him -	
Contact Person Chuck	Hargrave Phone 6	Fax 9582684248 Fax 9582684528
D. DRILLING COMPANY	TATATOM ENVISOR 11 ( 1	6
Phone 8582684248 , F	ax 8582684528 Mailing Address	<u>Lna C57# 686780</u>
		s 8360 Uprement Meis Blid #107
E. CONSTRUCTION INFORM	MATION	
TYPE OF WELLS/	MATERIALS TO BE USED	
BORINGS TO BE CONSTRUCTED	CASING SEAL/BO	PROPOSED CONSTRUCTION
	BACK	- ALL 10
#	TNOT	T-2 11 1 1 1
Groundwater	Applicable Neat Cemen	
☐ Vadose	Type Cement & B	
		entonite
Boring	Gauge Sand-Cemen Diameter Bentonite	
Other	1 XX-11 C	Bentonite transition
	Size Other	seal
NUMBER OF WELLS TO	T'11 T	to
BE DESTROYED#	Filter Pack Borehole diamet	er Filter Packto
	(Specify)	
M 6	Drilling Method	Perforationto
7	Auger Air Rota	NOTE
	Mud Rotary Other	
	Percussion	Attach a well construction diagram to scale for wells with multiple completions.
I agree to comply with the requirer	nents of the arms (S)	
of San Diego and the State of Calif	nents of the current Site Assessment and Mitigornia pertaining to well/boring construction are	gation Manual, and with all ordinances and laws of the County
DRILLER'S SIGNATURE	Mellille	
TYP. 1	- 2	DATE 2-28-05
Within 60 days of completion, I wi	ll furnish the Monitoring Well Permit Desk wi	ith a complete and accurate well/boring log. I will certify the
and construction of destruct	in nirnish the Monitoring Well Permit Desk with the ion of the well/borings in accordance with the	permit application. I will certify the
RG/RCE/CEG SIGNATURE	Sendel Stille of	DATE 3/3/AT
		SHILLER
DELY GLAVES OF THE	late.	19-4558 /×//
DEH:SAM-9060 (Rev. 02/04)	Page 1 of 5	County of San Diego Department of Environmental Health

4. ASSESSOR'S PARCEL NUMBER  Site Name  Site Address  City  Zip  PROPERTY OWNER  Phone  Mailing Address  City  State  Zip	1. ASSESSOR'S PARCE	L NUMBER	483022	6900				
PROPERTY OWNER NCISON PACEL NUMBER Site Name S	Site Name Ace To	wing						
Mailing Address 1364 N. MAGNOLÍA ANC City CI CATON State CA ZIP 17070  NUMBER OF WELLS 3 TYPE OF WELLS Destruction  2. ASSESSOR'S PARCEL NUMBER 483 072 1700  Site Name E1 CAJON PUBLIC AUCTION  Site Address 1360 N. MAGNOLÍA ANC City E1 CAJON Zip 92020  PROPERTY OWNER NCISON FAMILY TOUST Phone  Mailing Address 10 60 N 309 City E1 CAJON State CA Zip 92070  NUMBER OF WELLS 3 TYPE OF WELLS Destruction  3. ASSESSOR'S PARCEL NUMBER  Site Address City State Zip  NUMBER OF WELLS City Zip  NUMBER OF WELLS TYPE OF WELLS  4. ASSESSOR'S PARCEL NUMBER  Site Address City State Zip  NUMBER OF WELLS TYPE OF WELLS Phone  Site Address City State Zip  PROPERTY OWNER Phone	Site Address 1354	M. Magnolia	Avenue		City	CAJON	Zip	92020
NUMBER OF WELLS  3 TYPE OF WELLS  2. ASSESSOR'S PARCEL NUMBER  4. ASSESSOR'S PARCEL NUMBER  Site Address  City  Type of Wells  State CA Zip 11010  Site Address  Site Address  City  Type of Wells  City  Cafe N  Zip  Type of Wells  Phone  State CA  Zip  Type of Wells  State CA  Zip  Type of Wells  City  State  Type of Wells  Type of Wells  Type of Wells  City  State  Type of Wells  City  State  Type of Wells		Mrs. Mor	***************************************	ALL CONTRACTOR		•		
2. ASSESSOR'S PARCEL NUMBER 483022 1700  Site Name El CAJON PUBLIC AUCTION  Site Address 1360 N. MAGNOLIC AUCTION  Site Address 1360 N. MAGNOLIC AUCTION  PROPERTY OWNER NCISON FAMILY TEVST Phone  Mailing Address 10 60% 309 City El CAJON State CA Zip 91012  NUMBER OF WELLS 3 TYPE OF WELLS Destruction  3. ASSESSOR'S PARCEL NUMBER  Site Name  Site Address City State Zip  NUMBER OF WELLS TYPE OF WELLS  NUMBER OF WELLS TYPE OF WELLS  4. ASSESSOR'S PARCEL NUMBER  Site Name  Site Address City State Zip  PROPERTY OWNER  Site Address City State Zip  PROPERTY OWNER  A SSESSOR'S PARCEL NUMBER  Site Name  Site Address City State Zip  PROPERTY OWNER  Phone  PROPERTY OWNER  Phone  PROPERTY OWNER  A SSESSOR'S PARCEL NUMBER  Site Address City State Zip		J	City		COJON	State _	CA Zip	92020
Site Name	NUMBER OF WELLS	3		ТҮРЕ	OF WELLS _	Destruct	401	
Site Address 1360 M. Magnolis Ave City El Cagon Zip 92020  PROPERTY OWNER NC 150 N Family 1 cust Phone Mailing Address 10 60 309 City El Cagon State CA Zip 92022  NUMBER OF WELLS 3 TYPE OF WELLS Destruction  3. ASSESSOR'S PARCEL NUMBER Site Address City Zip  PROPERTY OWNER Phone Mailing Address City State Zip  NUMBER OF WELLS TYPE OF WELLS  4. ASSESSOR'S PARCEL NUMBER Site Name Site Address City State Zip  PROPERTY OWNER Phone  Property Owner Site Address City Zip  PROPERTY OWNER Site Address City Zip  PROPERTY OWNER Site Address City Zip  PROPERTY OWNER Phone  PROPERTY OWNER Phone  Mailing Address City State Zip	2. ASSESSOR'S PARCEI Site Name El CASO							
Mailing Address No box 309 City El Cator State CA Zip 92022  NUMBER OF WELLS 3 TYPE OF WELLS Destruction  3. ASSESSOR'S PARCEL NUMBER Site Name Site Address City State Zip  NUMBER OF WELLS TYPE OF WELLS  Phone  Audiling Address City State Zip  4. ASSESSOR'S PARCEL NUMBER Site Name Site Address City State Zip  PROPERTY OWNER  FYPE OF WELLS  A City State Zip  PROPERTY OWNER  FYPE OF WELLS  City Zip  PROPERTY OWNER  Phone  PROPERTY OWNER  City State Zip  PROPERTY OWNER  Site Address City State Zip  PROPERTY OWNER  Phone	Site Address 1360	The state of the s			City	COJON	Zip	92020
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NUMBER OF WELLS  TYPE OF WELLS  4. ASSESSOR'S PARCEL NUMBER  Site Name  Site Address  City Zip  PROPERTY OWNER  Phone  Mailing Address City State Zip	Training Additions		City _			State		<del>,</del>
4. ASSESSOR'S PARCEL NUMBER  Site Name  Site Address  City  Zip  PROPERTY OWNER  Mailing Address  City  State  Zip  Phone	NUMBER OF WELLS			ТҮРЕ О	F WELLS			
Site Address	4. ASSESSOR'S PARCEL	NUMBER						
Site Address	Site Name							
PROPERTY OWNERPhone  Mailing AddressCityStateZip	Site Address				_ City		Zip	
State Zip		•						
	Mailing Address		City			State	Phone	
						2200		

F. SITE INFORMATION

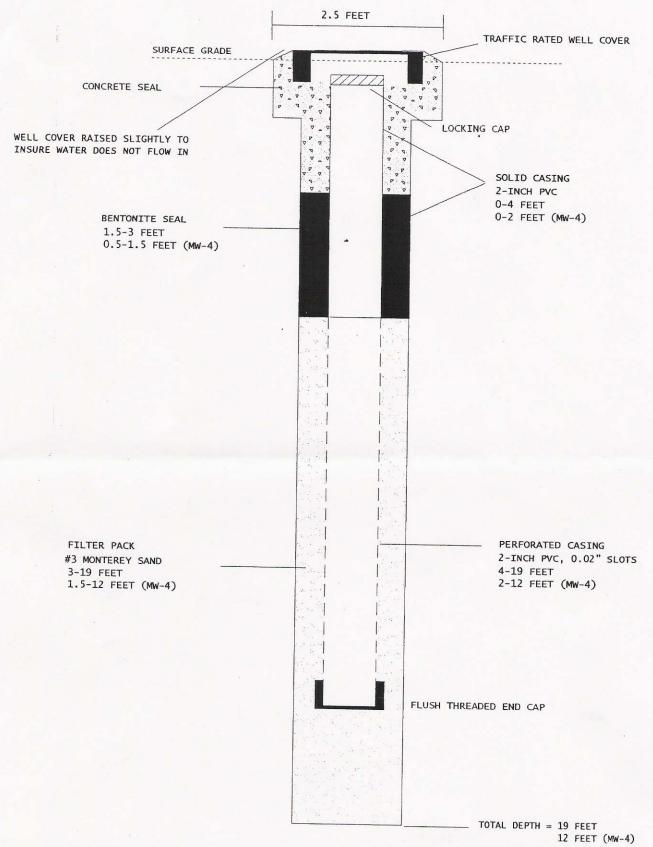
ACTIVITY	FEE SCHEDULE	
Permit for Well Installations Only (Groundwater Monitoring Wells, Vadose, Vapor Extraction Wells)	\$175.00 for the first monitoring well	AMOUNT \$175.00
Permit for Well Maintenance Inspection (Valid for three years)	\$ 95.00 for first well maintenance inspection	\$ 95.00
Each Additional New Well	\$150.00 for each additional well installation	x \$150.00 \$ _x \$ 30.00 \$
Permit for Borings Only (CPT's, Hydropunch, Geoprobes, Temporary Well Points, etc.)	\$175.00 for the first boring	\$175.00
Permit for Well Destructions Only	\$175.00 for the first destruction	x \$ 45.00 \$  1 \$175.00  5 x \$115.00 \$ 57 5
Permit for any Combination of Well Installations, Borings, & Destructions (except UST backfill permit)	The first activity will be \$175.00. (If first activity is a well, add in \$ 95.00 for the first well maintenance inspection.)	\$175.00 (x \$ 95.00)
		x \$150.00 \$ x \$ 30.00 \$ x \$ 45.00 \$ x \$ 115.00 \$
Permit for Underground Storage Tank Monitoring System in Backfill (i.e. Enhanced Leak Detection)	\$315.00 (Flat Fee)	\$315.00
	TOTAL COST OF PERMIT	s 750

# H. QUESTIONAIRE:

	Please answer all applicable questions completely. For well destructions, complete only #1 below and submit any required supportive documentation.
1	If wells are to be destroyed, provide a description of method of destroyed
2.	and 2" cossing removed well bore will be averdailed with b" avger to remove all will moderals. Be What is the purpose of the well/boring investigation?
3.	a) Part of an on-going site assessment case in which DEH or another government regulator is the lead agency. b) Part of a Phase I investigation for property ownership transfer or: c) Geotechnical investigation for proposed construction, land stabilization or: d) Other:
4.	What field procedures will be utilized to determine if contamination exists?
5.	What procedures will be used to determine whether samples will be sent for laboratory testing or archiving?
6.	What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)?
7.	How will samples be transported and preserved?
	What sampling methods will be used?

9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction or destruction of Vadose and Ground Water Monitoring Wells (Current SAM Manus Supporting documentation. Refer to the SAM Manual Appendix B for monitoring well guideling ( <a href="http://www.sdcounty.ca.gov/deh/lwq/sam/monitoring_well.html">http://www.sdcounty.ca.gov/deh/lwq/sam/monitoring_well.html</a> ).
10. Are you proposing a variation in drilling and destruction of soil borings from the methods and/or procedure specified in the current SAM manual? If yes, specify these variations and include a destruction diagram.
11. What procedures will be used to ensure that no contamination will be introduced by the drilling equipment?
12. What methods will be used to clean sampling equipment?
13. What cleaning method will be used to the
13. What cleaning method will be used to clean casing and screen prior to installation?

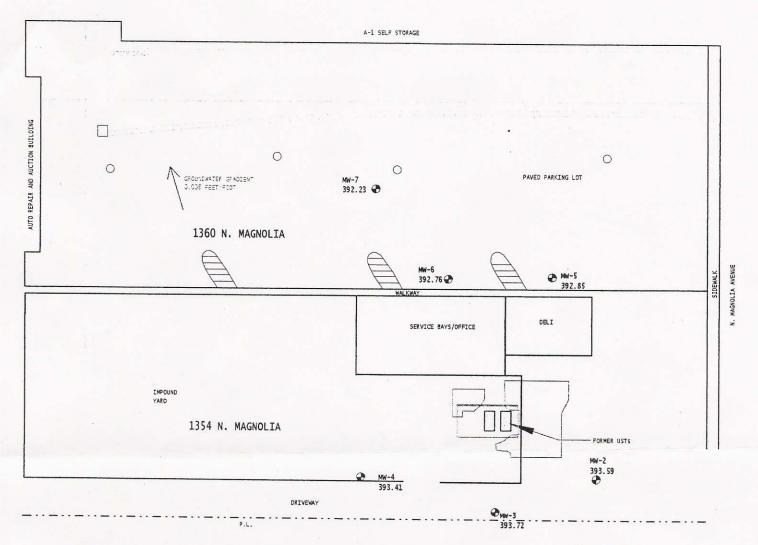
# EXISTING GROUNDWATER MONITORING WELLS



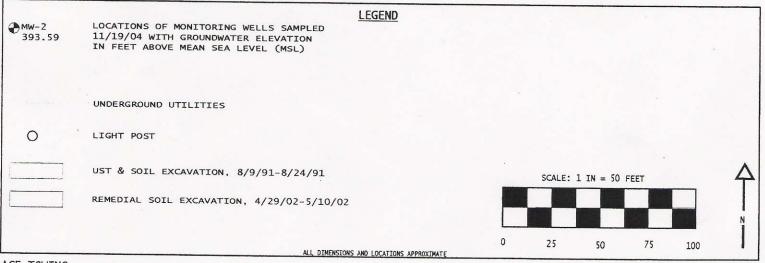
ACE TOWING
1354 N. MAGNOLIA AVENUE
EL CAJON, CALIFORNIA
PROJECT NO. 278.1.9
share\acetowing\drawings\wellcon.skf

FIGURE NO. 1: WELL CONSTRUCTION DETAILS

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ADJACENT COMMERCIAL PROPERTY



ACE TOWING 1354 N. MAGNOLIA AVENUE EL CAJON, CALIFORNIA PROJECT 278.1.22

FIGURE NO. 2: GROUNDWATER ELEVATIONS

ACE TOWING\DRAWINGS\278~1-22-GW.SKF

TABLE I

WELL CONSTRUCTION DETAILS

			CLIRIO NOTICON DEIRIO	חדשוםת			
	MW-1	MW-2	MW-3	MW - 4	MW-5	MW-6	MW-7
TOTAL DEPTH (ft bgs)	20	19	18	12	19	19	19
WELL SCREEN (ft bgs)	10-20	4-19	4-19	2-12	4-19	4-19	4-19
SOLID CASING (ft bgs)	0-10	0 - 4	0 - 4	0-2	0 - 4	0-4	0 - 4
GRAVEL PACK - #3 SAND (ft bgs)	8-20	3-19	3-18	1.5-12	3-19	3-19	3-19
BENTONITE SEAL (ft bgs)	2-8	1.5-3	1.5-3	0.5-1.5	1.5-3	1.5-3	1.5-3
CONCRETE SURFACE SEAL (ft bgs)	0-2	0-1.5	0-1.5	0-0.5	0-1.5	0-1.5	0-1.5
DATE COMPLETED	02/10/93	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01

ft bgs = feet below ground surface MW-1 destroyed 4/30/02 during remedial excavation